**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **LB213/D02 comment resolution -- Mandatory support for UNII-3 -- CID 167** |
| Date Submitted | August 25, 2025 |
| Sources | Alex Krebs (Apple)  krebs @ apple.com |
| Re: |  |
| Abstract |  |
| Purpose | To propose resolution for MMS related comments for “P802.15.4ab™/D02 Draft Standard for Low-Rate Wireless Networks”. |
| Notice | This document does not represent the agreed views of the IEEE 802.15 Working Group or IEEE 802.15.4ab Task Group. It represents only the views of the participants listed in the “Sources” field above.It is offered as a basis for discussion and is not binding on the contributing individuals. The material in this document is subject to change in form and content after further study. The contributors reserve the right to add, amend or withdraw material contained herein. |

# CID 167 (Revised)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| MAMAN, MICKAEL | 167 | 71 | 10.39.3.5 | 16 | Note that at least one mutually supported channel between the initiator and the responder is required to start a ranging session. How to ensure it? May be make CH2 mandatory | open to discussion to make the default channel mandatory |

Discussion: UNII-3 is ITU designated ISM band and is available globally with few exceptions. Subject to regulatory allowance, support for channel 0-49 can be mandated to enable interoperability. Use of certain channels, e.g., at the band edge, may be restricted by device specific OOBE requirements. Adding a condition "subject to regulatory compliance" also takes care of this consideration.

Proposed resolution: Revised

Disposition Detail: Instruction to editor: On p.83 line 5 apply the following changes:

**10.39.8.2 Channel bands**

The set of O-QPSK PHY channels to be used, from the 250 channels defined in 11.1.3.15, is configured via

the *macMmsNbChannelAllowList* attribute. Where permitted by regulatory rules, HRP-ARDEVs implementing NBA-UWB MMS operation shall support the 5800 MHz O-QPSK PHY. As a reference, Figure 44 shows the spectrum layout of the

2.5 MHz spaced O-QPSK PHY channels in relation to the 20 MHz channels of IEEE 802.11 WLAN in the

5725 MHz to 6425 MHz frequency range.

Instruction to editor: On p.201 line 14 apply the follwing changes:

**11.1.3.15 Channel numbering for O-QPSK PHY in 5800 MHz and 6200 MHz bands**

For the O-QPSK PHY, 50 channels are defined in the 5800 MHz band and 200 channels in the 6200 MHz

band. The center frequencies of these channels are defined as follows:

*fc* = 5726.25 + *k* × 2.5 in megahertz for *k* =0, …, 49

*fc* = 5926.25 + (*k* - 50) × 2.5 in megahertz for *k* = 50 , …, 249

where, *k* is the channel number.

Where permitted by regulatory rules, HRP-ARDEVs implementing NBA-UWB MMS operation shall support channels 0 to 49.